112-1-1419

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957, Nr 1, p.215 (USSR)

AUTHOR:

CANE, IN

Ganz, S.N.

TITLE:

Automatic Control of Centrifugation Operations

(Avtomaticheskoye upravleniye protsessom tsentri-

fugirovaniya)

PERIODICAL: Tr. Dnepropetr. khim.-tekhnol. in-t; 1955, Nr 4, pp.186-190

ABSTRACT:

Bibliographic entry

Card 1/1

AID P - 2259

Subject : USSR/Chemistry

Card 1/1 Pub. 152 - 4/19

Authors : Ganz, S. N. and S. B. Kravchinskaya

Harry Market State Committee

Title : Rate of absorption of nitrogen oxides by solutions of

Ca(OH)2 in mechanical absorption apparatus with a large

number of revolutions.

Periodical: Zhur. prikl. khim., 28, no.2, 145-155, 1955

Abstract : The absorption was conducted in three types of apparatus

the characteristics of which are presented in a table. The degree of absorption of nitrogen oxides increases markedly with increase in the number of revolutions. The calculations show a saving of 61.4% in energy when mechanical absorption apparatus are used. Four tables, 7 illustrations, 6 references (all Russian: 1949-1955).

Institution: Dnepropetrovsk Institute of Chemical Technology

Submitted : J1 20, 1953

AID P - 3489

5482, D. N

Subject

Card 1/1

: USSR/Chemistry

Pub. 152 - 4/21

Authors

: Ganz, S. N. and S. I. Kapturova

Title

Kinetics of formation of nitric acid in mechanical

absorbers with a large number of revolutions

Periodical

: Zhur. prikl. khim., 28, 6, 585-596, 1955

Abstract

In mechanical absorbers with a large number of revolutions the gas is thoroughly mixed with the liquid, and the oxidation of NO to NO<sub>2</sub> proceeds at a higher rate. Two tables, 13 diagrams, 12 references, all Russian (1900-1953).

Institution : None

Submitted

: N 4, 1953

AID F - 3726

Subject

: USSR/Chemistry

Card 1/2

Pub. 152 - 6/16

Authors

: Ganz, S. N., M. A. Lokshin, and S. I. Kapturova

Title

Control of the same of the same of the same : Determination of the coefficients of the absorption rate of nitrogen oxides by aqueous solutions of nitric acid in mechanical absorbers. Part II.

Periodical

: Zhur. prikl. khim. 28, 8, 831-840, 1955

Abstract

: The coefficient of the absorption rate is a function of peripheral speed of the discs, temperature, concentration of nitrogen oxides in the gas, and the concentration of nitric acid. By using the formulas given in the article, accurate rates are obtained for the following conditions: temperatures ranging from 10-70°C, nitric acid solutions of 5-40%, and nitrogen oxide concentrations of 1-9%. Seven tables, 5 diagrams, 18 references, 13 Russian (1934-1953).

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000514310002-5"

Zhur. prikl. khim. 28, 8, 831-840, 1955

AID F - 3726

Card 2/2 Pub. 152 - 6/16

Institution : None

Submitted : N 4, 1953

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R000514310002-5"

AID P - 3919

Subject : USSR/Chemistry

Card 1/1 Pub. 152 - 2/19

Author

That by

: Ganz, S. N.

Title

: Mechanism of oxidation of nitric oxide and of formation

of nitric acid under high-eddy conditions.

Periodical: Zhur. prikl. khim. 28, 10, 1037-48, 1955

Abstract

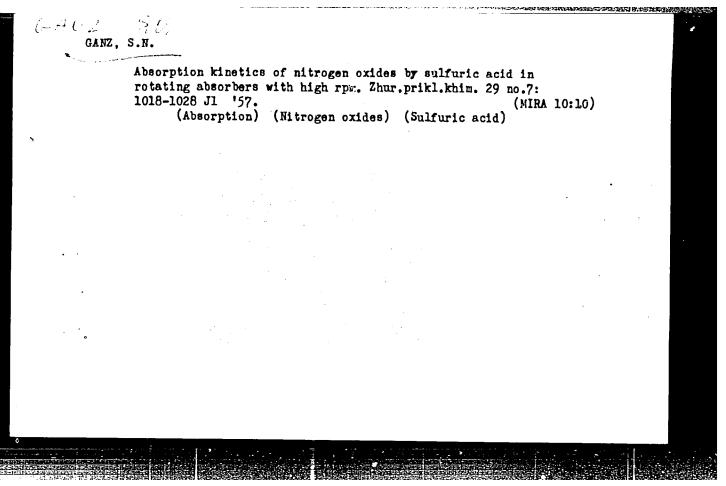
: The effect of various factors on the oxidation of nitric oxide is discussed, namely: eddy, concentration of NO in the gas, solubility of oxygen, concentration of nitric acid, surface of the phase contact. The

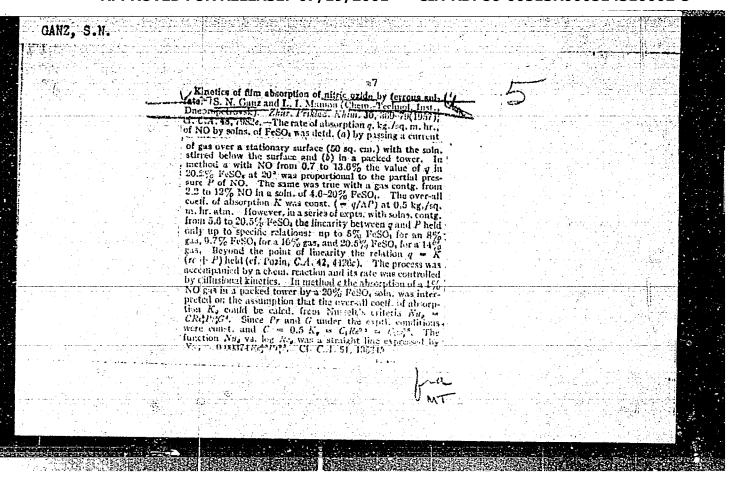
oxidation of nitric oxide is a heterogeneous-homogeneous process. The greater the surface of the phase contact, the greater is the rate of oxidation of NO. Five tables,

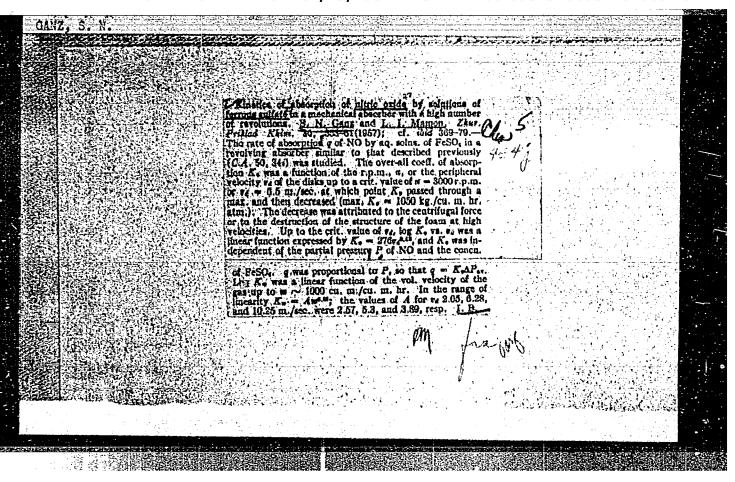
4 diagrams, 24 references, 13 Russian (1901-55).

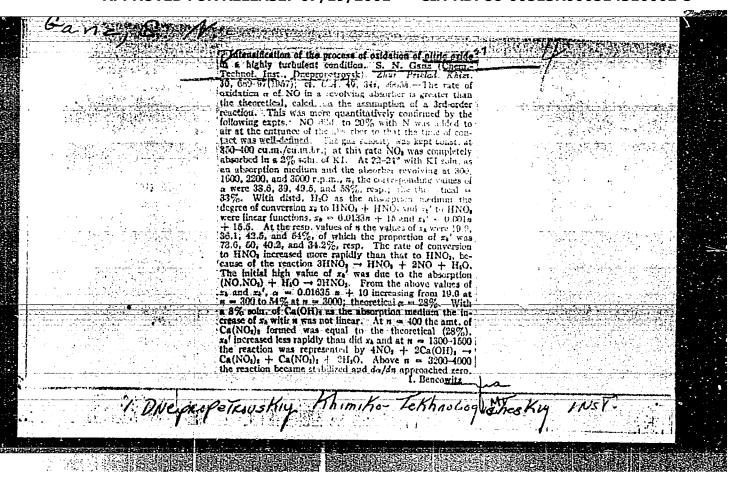
Institution: None

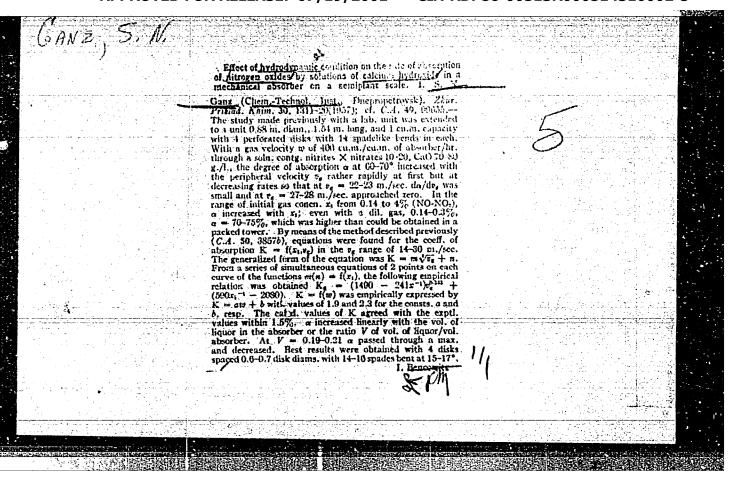
Submitted : D 10, 1953

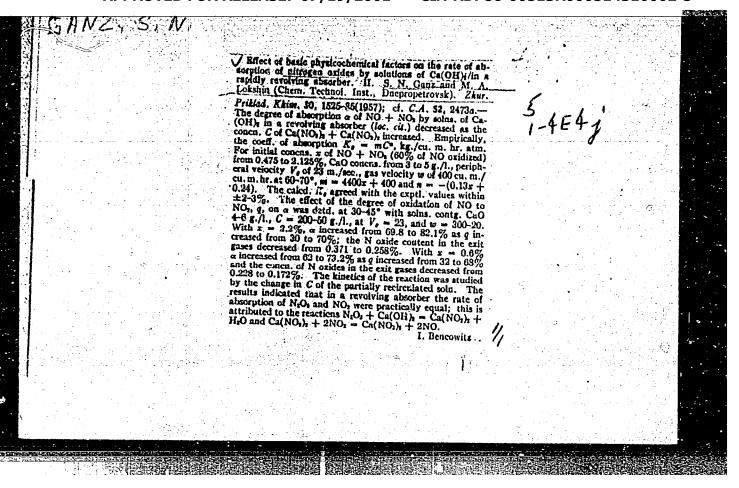


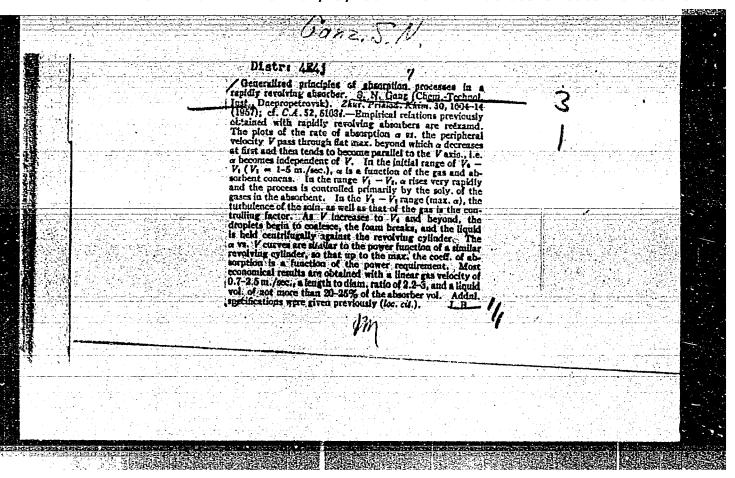












GANZ, S. N.: Doc Tech Sci (diss) -- "Investigation of the kinetics of absorption of the oxides of nitrogen by solution of HNO3, H2SO1, Ca(OH)2, and FeSO1, in mechanical absorbers with high rotary speeds". Leningrad-Dnepropetrovsk, 1958. 21 pp (Min Higher Educ USSR, Leningrad Order of Labor Red Barner Technological Inst im Leningrad Soviet) 200 copies (KL, No 1, 1959, 118)

GANZ, S.N.

Absorption of nitrogen oxides with solid absorbents. Zhur. prikl. khim. 31 no.1:138-140 Ja '58. (MIRA 11:4)

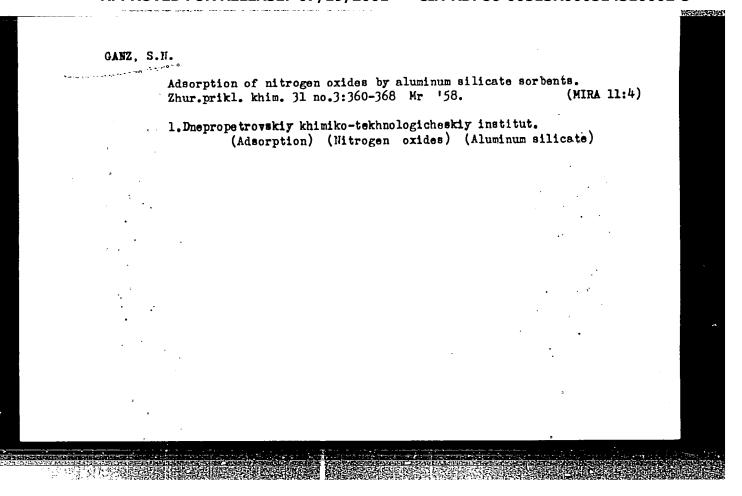
1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut. (Absorption) (Mitrogen oxides)

GANZ, S.N.; LAESHIN, M.A.

Making the coke-oven gas purification from hydrogen sulfide by high revolution rotary absorbent more efficient. Zhur. prikl. khim. 31 no.2:191-197 F \*58.

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut imeni F.E. Dzerzhinskogo.

(Coke-oven gas) (Hydrogen sulfide) (Absorption)



AUTHORS: Lokshin, M.A. and Ganz, S.N. SOV/68-59-1-10/26

TITLE:

Intensification of the Process of Pageneration of a Sodium-arsenical Solution Under Highly Turbulent Conditions (Intensifikatsiya protsessa regeneratsii mysh yakovo-sodovogo rastvora v usloviyakh vysoko-

turbulentnege rezhima)

PERIODICAL: Koks i Khimiya, 1959, Nr 1, pp 37 - 41 (USSR)

ABSTRACT:

The influence of the degree of turbulency of the system on the velocity of regeneration of the absorption solution  $(2Na_3AsS_4 + \bar{O}_2 = 2Na_2AsS_3O + 2S)$  was

investigated. The investigation was carried out on a large-scale laboratory installation (Figure 1). The reaction was carried out in a rotational regenerator with propeller discs set on a shaft (in Figure 1). The

influence of the peripheral velocity of the discs on the velocity regeneration was carried out under the following

standard conditions: volume velocity of air (w)

100 m<sup>3</sup>/m<sup>3</sup> of the volume of regenerator per hour, pH 7.5, A= $_2$ 0<sub>3</sub> 15.09 g/litre, Na $_2$ C0<sub>3</sub> 15.64 g/litre, t = 30 °C.

The volume of the liquid in the regenerator amounted to

Card1/3

Intensification of the Process of Regeneration of a Sodiumarsenical Solution Under Highly Turbulent Conditions

Card2/3

35% of the volume of the apparatus. Two series of experiments were made with regeneration time of 3 and 5 min. In each series the number of revolutions of the shaft varied from 0 to 1 400 rpm which corresponded to the variation in the peripheral velocity of discs (Vd) from O to 6 m/sec. The results are shown in Figure 2. influence of the time of regeneration, i.e. contact time between liquid and gaseous phases was additionally tested at Vd = 5.15 m/sec (1 200 rpm), t = 48 C, pH = 7.3 and  $\vec{x} = 100-110 \text{ m}^3/\text{m}^3$  hour using air and oxygen. found that in comparison with present industrial regeneration velocity, the process can be speeded up 12.5 - 20 times when using air and 33.4 - 53.4 times when using oxygen (Figure 3). The influence of the volume velocity of air was tested under the following conditions: Vd = 5.15 m/sec (1 200 rpm), t = 48 °C, pH = 7.3 regeneration time  $(\tau)$  5 minutes. The results (Figure 4) indicate that the highest degree of regeneration is obtained at  $W = 200-250 \text{ m}^3/\text{m}^3\text{hour}$ . The influence of the reaction temperature was tested under the following

Intensification of the Process of Regeneration of a Sodium-SOV/68-59-1-10/26 arsenical Solution Under Highly Turbulent Conditions

conditions:  $Vd = 5.15 \text{ m/sec} (1\ 200 \text{ rpm}), W = 200 \text{ m}^3/\text{m}^3\text{hour}, pH = 7.3, <math>\tau = 5 \text{ minutes}.$  The temperature range 20-60 °C was studied. The results obtained (Figure 5) indicated that the highest rate of regeneration is obtained at 48 - 55 °C. In addition, the influence of the degree of turbulency on the side reaction of formation of Na2S2O3 was tested. The results (Figure 6) indicated that there is no relationship; the amount of thiosulphate formed remained constant. It is concluded that an intensive increase in the degree of turbulence in the regeneration system sharply increases the velocity of the regeneration, due to which capital expenditure on the plant and consumption of electric power for its operation can be considerably decreased. There are 6 figures.

ASSOCIATION: Dnepropetrovskiy khimiko-tekhnologicheskiy institut (Dnepropetrovsk Chemico-technological Institute)

Card 3/3

5(1) AUTHORS:

Ganz, S. N., Lokshin, M. A.

TITLE:

A Critical Equation of the Mass Exchange in Horizontal Mechani-

SOV/153-2-4-31/32

The second secon

cal Absorbers

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya

tekhnologiya, 1959, Vol 2, Nr 4, pp 636-641 (USSR)

ABSTRACT:

The mass-exchange processes take place under highly turbulent conditions under the effect of numerous physicochemical and hydrodynamic factors. The use of the similarity method proved to be most convenient in the investigation of the combined effect of these factors on the process rate (Refs 5-8). The authors investigated the kinetics of the processes mentioned in horizontal mechanical mono- and polysection absorbers (Refs 1-4). Equation (1), and this functional dependence, respectively, determine the rate of the exchange mentioned in these apparatus. The required functional dependence of the Kirpichev diffusion criterion on the determining factors is expressed by equation (2). This critical equation sufficiently describes the adsorption process in mechanical absorbers with a high number of revolutions. There are 5 figures, 1 table, and 10 Soviet references.

Card 1/2

SOV/153-2-4-31/32 A Critical Equation of the Mass Exchange in Horizontal Mechanical Absorbers

ASSOCIACTION: Dnepropetrovskiy khimiko-tekhnologicheskiy institut; Kafedra

oborudovaniya khimicheskikh zavodov

(Dnepropetrovsk Institute of Chemical Technology; Chair of Machinery for Chemical Factories)

SUBMITTED: June 28, 1958

Carbon ammoniates, a new type of economical fertilizers. Inv.vys. ucheb.zav.; khim.i khim.tekh. 2 no.6:913-915 '59. (MIRA 13:4)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut. Kafedra. oborudovaniya khimicheskikh savodov.

(Ammines)

(Fertilizers and manures)

#### CIA-RDP86-00513R000514310002-5 "APPROVED FOR RELEASE: 07/19/2001

5(2)

SOV/80-32-5-6/52

THE REPORT OF THE PERSON OF TH

AUTHORS:

Ganz, S.N., Vilesov, G.I., Gorbman, S.I., Leybovich, S.B.

TITLE:

The Combination of the Purification Process of a Nitrogen-Hydrogen Mixture From CO<sub>2</sub> With the Preparation of Ammonium Carbonates.

Communication I.

PERIODICAL:

Zhurnal prikladnov knimii, 1959, Vol 32, Nr 5, pp 969-975 (USSR)

APSTRACT:

The separate and combined absorption of NH3 and CO2 depending on the physical-chemical and hydrodynamic conditions of the process is investigated here. For this purpose horizontal rotary absorbers with high rpm were used /Refs 1-4/. At a temperature of 17-18°C and a pressure of 749 mm Hg, the absorption reaches 100% at 250 rpm. If the NH3 supply is more than 500 m per m of absorbent hr, the revolutions must be increased to 850-900 per min. Under highly turbulent conditions the productivity of the apparatus is 40-41 times greater than that of packed columns. The absorption of CO<sub>2</sub> by ammonia water at 18°C and a supply of 500 m<sup>3</sup>/m<sup>3</sup>.hr at a CO<sub>2</sub> content of 11.8% in the gas reaches its maximum of 98.5% at 2,000 rpm. An increase of the supply rate reduces the degree of absorption. A maximum of absorption is reached at a Co content of 11% in the gas. The highest

Card 1/2

SOV/80-32-5-6/52

The Combination of the Purification Process of a Nitrogen-Hydrogen Mixture From CO2 With the Preparation of Ammonium Carbonates. Communication I.

rate of the process can be attained at a stoichiometric NH3:CO2 ratio 1:1. The combined absorption of NH3 and CO2 differs only slightly from the separate absorption. The degree of absorption decreases with the increase of the ammonium carbonate concentration in the solution, which is explained by the higher viscosity of the solution and the higher vapor pressure of NH<sub>3</sub> and CO<sub>2</sub>. An excess of ammonia shows the most favorable results in this case. There are: 1 diagram, 10 graphs and 4 Soviet references.

SUBMITTED:

September 12, 1957

Card 2/2

sov/80-32-5-7/52

AUTHORS:

Ganz, S.N., Leybovich, S.B., Gorbman, S.I.

TITLE:

5(2)

The Investigation of the Rate of Conversion of CaSO $_4$  to (NH $_4$ )  $_2$ SO $_4$  in Combining This Process With the Absorption of NH $_3$  and CO $_2$  Under

Highly Turbulent Conditions. Communication II.

PERIODICAL:

Zhurnal prikladnoy khimii, 1959, Vel 32, Nr 5, pp 975-978 (USSR)

ABSTRACT:

A rational method of purifying a nitrogen-hydrogen mixture from  $\rm CO_2$  is the combination of this process with the conversion of  $\rm CaSO_4$  to ammonium sulfate. Horizontal rotary apparatuses were used, in which intensive mixing of the gaseous and liquid phases increases the reaction rate. To a 116 g/l solution of  $\rm (NH_4)_2SO_4$  a finely ground powder of  $\rm CaSO_4$  ·  $\rm 2H_2O$  in the amount of 100 g was added. The conversion of gypsum attains 90-94% in a three-minute contact of the two phases at 400-500 rpm. For the absorption of  $\rm CO_2$  the gypsum suspension in the apparatus was saturated with ammonia to 8.4% NH<sub>3</sub>. At 1,200 rpm, 27.5 - 28°C, 750 mm Hg, a gypsum content of 126 g/l and a  $\rm CO_2$  content of 10.6% in the gas, the absorption of  $\rm CO_2$  comes to an end in the 12th minute due to the complete consumption of gypsum and NH<sub>3</sub>, if the supply rate is 250 m<sup>3</sup>/m<sup>3</sup>.hr. The absorption

Card 1/2

SOY/80-32-5-7/52

The Investigation of the Rate of Conversion of  $CaSO_{\parallel}$  to  $(NH_{\parallel})_2SO_{\parallel}$  in  $Comb_{\perp}$  ing This Process With the Absorption of  $NH_3$  and  $CO_2$  Under Highly Turbulent Conditions. Communication II.

rate is increased with the supply rate. The concentrations of 64 g/l CaSO4 and 57 g/l (NH4)  $_2$ SO3 ensure a maximum of the reaction rate. The optimum temperature lies between 28 and 38°C.

There are: 3 graphs and 7 Soviet references.

ASSCCIATION:

Dnepropetrovskiy khimiko-tekhnologicheskiy institut (Dnepropetrovsk

Chemical-Technological Institute)

SUBMITTED:

September 12, 1957

Card 2/2

5.1105

75664

SOV/80-32-10-13/51

AUTHORS:

Qanz, S. N., Leybovich, S. B., Malyshevich, N. A.,
Lokshin, M. A.

TITLE:

Investigation of the Rate of CO, Absorption by a
Monoethanolamine Solution in a Horizontal Mechanical
Absorber

PERIODICAL:

Zhurnal prikladnoy khimii, 1959, Vol 32, Nr 10

pp 2207-2210 (USSR)

ABSTRACT: This is a study of the dependence of the rate (R)

of absorption and of the percentage of CO<sub>2</sub> absorbed (w) on the following factors: blade shaft rpm (n), gas volume flow rate (W), % CO<sub>2</sub> in gas (C<sub>g</sub>), temperature(T),% monoethanolamine in the solution (C<sub>L</sub>), and degrees of monoethanolamine saturation. Absorption rates were increased by use of horizontal high-rpm

mechanical absorbers described earlier (Ganz, S. N., ZhPKh, 30, 1604 (1957)). (1) Effect of shaft rpm.

Investigation of the Rate of CO<sub>2</sub> Absorption by 75664

Monoethanolamine Solution in a Horizontal SOV/80-32-10-13/51

Mechanical Absorber

Conditions: W, 400 m³/m² x hr; C, 20.3%; 32°; 752 mm Hg; C<sub>L</sub>, 30%. Result: 100% absorption at n = 500 rpm (circumferential speed (v) = 2 m/sec); at n>120 rpm, w and R decrease smoothly. The effect of the gas volume flow rate is shown in Fig. 1. Figs. 2 and 3 show the effect of CO<sub>2</sub> concentration at W = 400 m³/m³ x hr; n = 500 rpm; 31-32°; C<sub>g</sub> = 30%; 758 mm Hg. Fig. 4 shows the effect of temperature. The influence of monoethanolamine concentration and saturation is shown in Figs. 5 and 6, respectively; at C<sub>L</sub><10%, w<90% owing to the low reaction rate under these conditions. Taking into account monoethanolamine losses by entrainment, optimum C<sub>L</sub> = 30-35%. Fig. 7 shows the superiority of monoethanolamine ever 20% potash solution. There are 7 figures; and 7 Soviet references.

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Investigation of the Rate of CO<sub>2</sub> Absorption by a Moncothanolamine Solution in a Horizontal Mechanical Absorber

75664 SOV/80-32-10-13/51



Fig. 1. w vs W: (A) w (%); (B) W ( $m^3/m^3$  x hr); n (rpm): (1) 800 to 900; (2) 500; T, 31°, Cg, 19.4%.

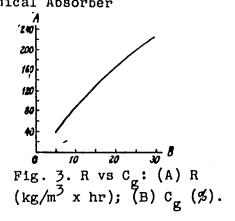


Fig. 2. w vs 
$$C_g$$
: (A) w (%); (B)  $C_g$  (%).

Card 3/6

Investigation of the Rate of CO<sub>2</sub> Absorption & Constitution in a Horizontal Mechanical Absorber

75664 SOV/80-32-10-13/51



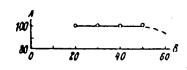


Fig. 4. w vs sorbent temperature (T): (A) w (%); (B) T; P = 754 mm Hg, W = 400 m<sup>3</sup>/m<sup>3</sup> x hr, n = 500 rpm, C<sub>L</sub> = 30%, C<sub>g</sub> = 18%.

Card 4/6

Investigation of the Rate of CO<sub>2</sub> Absorption by a possible and a Horizontal Mechanical Absorber

75664 SOV/80-32-10-13/51

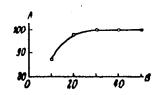


Fig. 5. w vs  $C_L$ : (A) w (%); (B)  $C_L$  (%); w = 400 m<sup>3</sup>/m<sup>3</sup> x hr, n = 500 rpm, T = 37°,  $C_g$  = 18.9%.

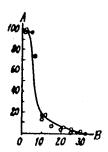


Fig. 6. w vs test duration: (A) w (%); (B) test duration (min); initial  $C_L = 30\%$ ,  $C_g = 19\%$ , n = 800 rpm, T = 220,  $W = 600 \text{ m}^3/\text{m}^3 \text{ x hr}$ .

Card 5/6

Investigation of the Rate of CO<sub>2</sub> Absorption by a impethanolamine Solution in a Horizontal Mechanical Absorber

75664 SOV/80-32-10-13/51

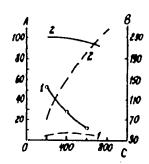


Fig. 7. W, and rate of absorption by potash solution  $(R_p)$  and by monoethanolamine (R) vs W: (A) w (%); (B) R and  $R_p$   $(kg/m^3 \times hr)$ ; (C) W  $(m^3/m^3 \times hr)$ ; Solid line w; dotted line: R and  $R_p$ ; (1) potash, (2) monoethanolamine.

ASSOCIATION:

Dacy opetrovsk Chemical Engineering Institute (Dacoropetrovskiy Enimiko-tekhnologicheskiy institut)

SUENETTED:

Reptember 25, 1958

Card 6'/6

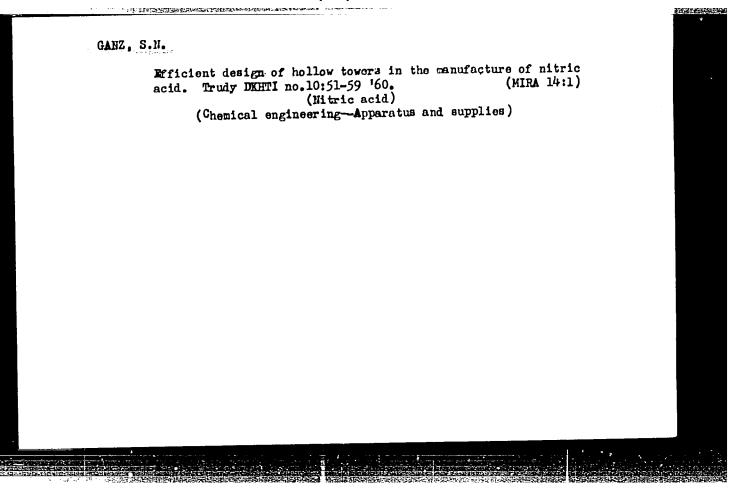
GANZ, Semen Naumovich; Prinyali uchastiye: MEDOBACH, G.G.: TOPTUNENKO, Ye.T.;

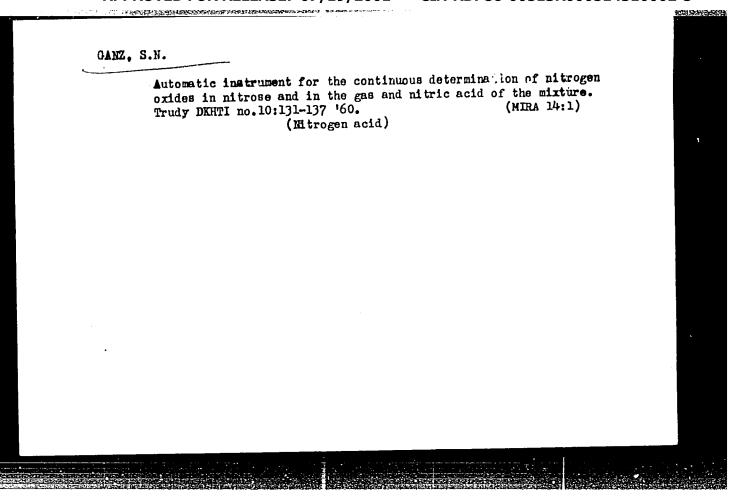
LEYBOVICH, S.B.; BRAGINSKAYA, R.I.; DAL', V.I., doktor tekhn. nauk,prf.,

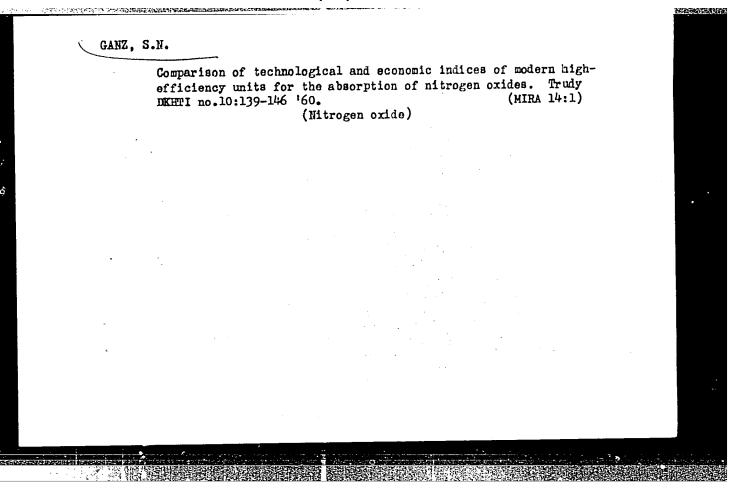
red.; NESTERENKO, A.S., red.; PLETENITSKIY, V.Yu., tekhn. red.

[Technological processes and equipment of the synthesis gas and fixed nitrogen industries] Tekhnologicheskie protsessy i oborudovanie proizvodstv sintez-gaza i sviazannogo azota. Pod red. V.I. Dalia. Khar'kov, Izd-vo Khar'kovskogo gos. univ., im. A.M.Gor'kogo', 1960. 550 p. (MIRA 14:8)

(Cas manufacture and works) (Nitrogen)







KUZNETSOV, I.Yes; CANZ, S.N.

Improved design of a skip elevator. Koks i khim. no.12:30-31 '60. (MIRA 13:12)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut. (Hoisting machinery)

	Continuous method khim. 33 no.6:125	for producing ammont 1-1257 Je '60. (Ammonium carbonate	ium carbonates.	Zhur. prikl. (MIRA 13:8)
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GANZ, Semen Naumovich; KUZNETSOV, Ivan Yefimovich; PREDTECHENSKAYA, N.

[Predtechens'ka,N.], red.; SICHUGOV, V. [Sychubov,V.], tekhn.
red.

[Furnaces for the chemical industry] Vypaliuval'ni pechi khimichnoi
promyslovosti. Kyiv, Derzh. vyd-vo tekhn. lit-ry URSR, 1961. 217 p.

(MIRA 14:10)

(Furnaces)

GANZ, S.N., kand.tekhn.nauk; KHOKHLOV, S.F., inzh.

Determination of the disensions of centrifugal hollow towers with mutiple-diak sprayers. Khim.mash. no.2:31-33 Mr-Ap '161.

(Chemical engineering—Equipment ans supplies)

(Absorption)

Increasing the absorption of nitrogen oxides from exhaust gases by alkaline solutions. Izv.vys.ucheb.zav.; khim.i khim.tekh.
4 no.6:998-1002 '61. (MIRA 15:3)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut imeni Dzerzhinskogo, kafedra tekhnologii neorganicheskikh veshchestv. (Nitrogen oxides) (Absorption)

GANZ, S.N.; ERAGINSKAYA, R.I.; GORODETSKIY, N.I.; LOKSHIH, M.A.

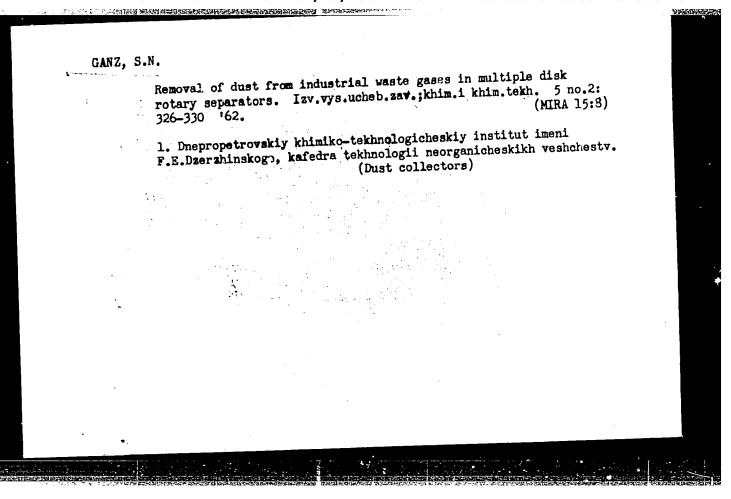
Prinimali uchestive: SLASHCHEVA, V.M. MOLCHANOV, V.A.;

OVCHARENO, B.G.

Absorption of nitrogen oxides by milk of lime in mechanical absorbers of a pilot plant. Izv.vys.ucheb.zav.; khim.i khim. (MIRA 15:4)

tekh. 5 no.1:155-159 '62. (MIRA 15:4)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut imeni F.E.Dzerzhinskogo, kafedra tekhnologii neorganicheskikh veshchestv. (Nitrogen oxides) (Lime)



GANZ, S. N.

New types of nitrogen fertilizers. Zemledelie 24 no.9:39-40 S'62. (MIRA 15:10)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut. (Nitrogen fertilizers)

L 31814-65 EPA(s)-2/EWT(m)/EPF(c)/EWP(v)/EPR/EWP(1)/T Pc-4/Pr-4/Ps-4/Pt-10 WW/HM BOOK EXPLOITATION ACCESSION NR AMOULLIST Ganz, Semen Naumovich; TEmel'yanov, Miney Stepanovich; Perkhomenko Vladimir Dadtriyevich Plastics in instrument manufacture (Plastmassy v apparatostroyenii), Kharkov, Izd-vo Khar'kovskogo univ., 1963, 198 p. illus., biblio. Errata slip inserted. 7,000 copies printed. TOPIC TAGS: polyethylene, polyisobutylene, polystyrene, fluoropolymer, glass fiber reinforced plastic, epoxy resin, phenolic resin, faolite, plastics machining, plastics joining, protective coating, graphite filled plastic, pump, fan, centrifuge, polyvinylchloride tube, corrosion resistance PURPOSE AND COVERAGE: AThis book presents date on the physical-chemical properties and corrosion resistance of construction plastics and the areas of their application are indicated. Considering the properties of plastics, methods of mechining them, applying protective coatings on materials and certain problems of fabricating equipment from plastics are included. The book is intended for workers in the chemical, coke, petroleum, and other industries in which it is necessary to protect equipment from aggressive media.

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L 3181b-65	
ACCESSION NR AMIOLILI31	2
TABLE OF CONTENTS [abridged]:	
Foreword — 3 Introduction — 4 Ch. I. Physical-mechanical properties and corrosion resistance of basic type of construction plastics — 6 Ch. II. Machining, welding and gluing of plastics — 73 Ch. III. Protective coating on metals — 94 Ch. IIII. Equipment and machines made of plastics — 140 Bibliography — 193	•
SUBHITTED: 15Hov63 SUB CODE: Mr, 00	
NO REF SOV 1 OL6 OTHER: OOL	
Card 2/2	

GANZ, S.N. [Hanz, S.N.]; PARKHOMENKO, V.B.

New antifriation and chemically stable materials. Khim.
prom. [Ukr.] no.4:20-24 O-B'63. (MIRA 17:6)

GANZ, S.N.; KUZNETSOV, I.Ye.

Removal of hydrogen sulfide in hollow even-flow absorbers with a centrifuge volumetric sprayer. Koks i khim. no.9:37-42 '63.

(MIRA 16:9)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut.

(Coke-oven gas) (Hydrogen sulfide)

PARKHOMENKO, V.D., inzh.; GANZ, S.N., kand. tekhn. nauk Effect of temperature on the friction and wear of filled fluoroplastic materials. Izv. vys. ucheb. zav.; mashinostr. (MIRA 17:3)

no.9:130-133 163.

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut.

GANZ, S.N., doktor tekhn. nauk; PARKHOMENKO, V.D.

Technology of the manufacture and testing of graphitized fluoroplast piston rings. Koks i khim. no.12:50-53 '63. (MIRA 17:1)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut.

GANZ, S.N.; KUZMETSOV, I.Ye.

Rate of absorption of nitrogen oxides in a tubular equiflow tower equipped with a centrifugal polume atomizer. Trudy DKHTI no.16:3-15 '63.

Alkaline absorption of nitrogen oxides in a tubular equiflow tower equipped with a centrifugal polume atomizer. Thid.:17-26 (MIRA 17:2)

GANZ, S.N.; LUK'YANITSA, A.I.

Thermal dissociation of FeSO, in susponsion. Izv.vys.ucheb.zav.;khim.i khim.tekh. 6 no.5:811-815 '63. (MIRA 16:12)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut imeni F.E.Dzerzhinskogo, kafedra tekhnologii neorganicheskikh veshchestv.

GANZ, S.[Hanz, S.], doktor tekhn. nauk

"Foxtails" will disappear. Mauka i shyttia 12 no.2:10 F '63.

(MIRA 16:4)

(Ukraine—Fertilizer industry)

GANZ, S.N.; PARKHOMENKO, V.D.; PETRUNIN, Ye.P.

Device for study of the antifriction properties of materials in corrosive media. Zav. lab. 29 no.6:763-764 163.

(MIRA 16:6)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut.

(Testing machines) (Friction materials)

GANZ, S.N.; KUZNETSOV, I.Ye.

Rate of absorption of nitrogen oxides in tubular towers with centrifugal volume sprayers. Zhur. prikl. khim. 36 no.8: 1686-1692 Ag '63.

Alkaline absorption of nitrogen oxides in a tubular tower with a centrifugal volume sprayer and evenly distributed flow. 1693-1697 (MIRA 16:11)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut.

"Mass transfer with chemical changes under the conditions of highly turbulent flow."

report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12 May 1964.

Dnepropetrovsk Chemical-Technological Inst.

L 16328-65 EMG(j)/EMP(e)/EMT(m)/EPF(c)/EPR/EMP(j)/T/EMP(b) Pc-4/Pr-4/
P5-4 JD/WW/Rt/ViH
ACCESSION NR: AP4049183 S/0314/64/000/005/0039/0038

AUTHOR: Ganz S.N. (Candidate of technical sciences), Glozman, L.P., (Parkhomenko,

V. D., Morgun, V.S., (Engineers)

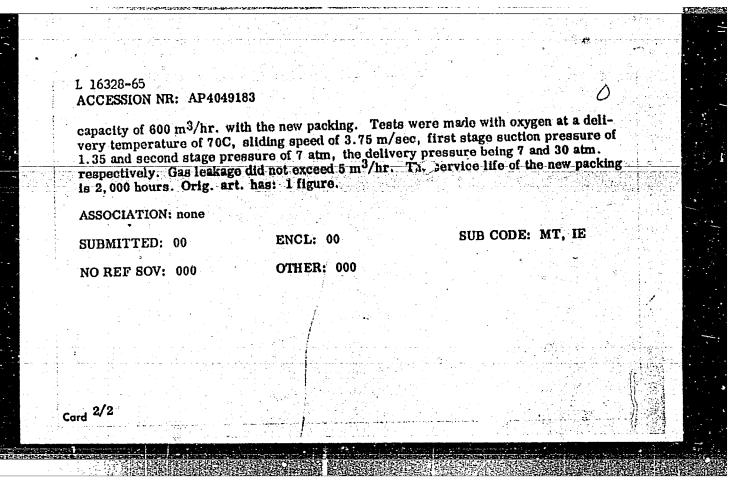
TITLE: Application of packings made of impregnated fluoroplasts in oxygen compressors

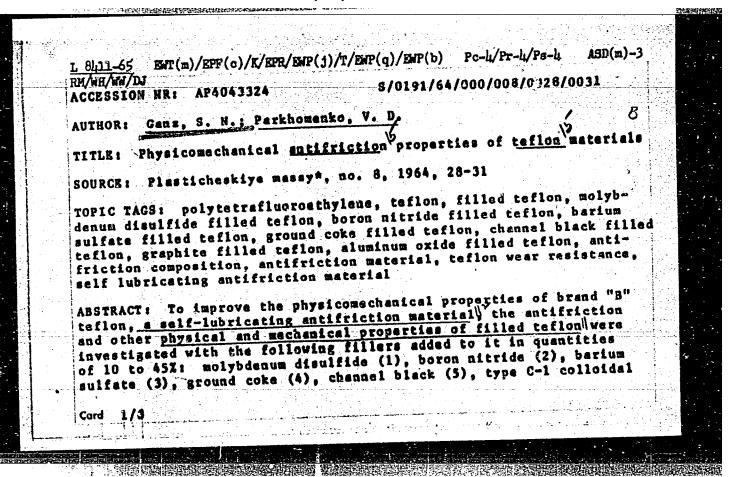
SOURCE: Khimicheskoye i neftyanoye mashinostroyeniye, no. 5, 1964, 39

TOPIC TAGS: packing, fluoroplast packing, carbon impregnated fluoroplast, oxygen compressor

ABSTRACT: In 3RK 10/30 double-action compressors, the required tightness was not provided by graphite-impregnated asbestos or pure fluoroplast-4. A new composition consisting of fluoroplast-4 with 18% colloidal graphite was therefore worked out by the Dnepropetrovskiy khimiko-tekhnologicheskiy institut (Dnepropetrovsk Chemical-Technological Institute). The plunger packing consists of internal fluoroplast rings: Technological Institute). The plunger packing consists of internal fluoroplast rings: a gasket of the same material prevents gas flow from the packing box to the plunger, and pressure is ensured by the oxygen in the machine. The water is supplied in the same way as for the old packing. The first stage packing does not have a duct for the water supply, which is available for the second stage. The compressor reached a

Card 1/2





L 8411-65 ACCESSION HR: AP4043324

graphite (6), and anhydrous aluminum oxide (7). The materials were molded into parallelepipeds and their wear resistance, impact strength, bending strength, hardness, creep at low temperatures, and water and acid absorption were tested. To obtain a homogeneous mixture, the components were mixed in a colloidal grinder. The wear resistance of all samples increased considerably. Fillers 6, 4, 1, and 2 were the most effective and 7 and 3 the least effective. The hardness of teflon materials with 15-25% filler increased 1.5-1.8 times. Hardness decreased sharply when filler content exceeded 25%. Haximum hardness was obtained with fillers 6, 3, and 2, while fillers 5, 4, and I were the least effective. Water and acid absorption by the material was greatest with fillers 7 and 4; no significant changes were observed with the others. Increased acid concentration resulted in greater absorption of materials. The impact strength of the materials decreased with the introduction of fillers. The most notice able change occurred with fillers 6, 5, 7, and 4. The introduction of fillers 3, 1, and 2 up to 15% did not affect the materials; with content greater than 15% the impact strength decreased sharply. The bending strength decreased with the introduction of 15-20% of

L 8411-65 ACCESSION NR: AP40	43324		0
resulted in reduce.	nd 3. In all cases an i i atrength. Orig. art.	ncrease in filler has: 7 tables.	Contain
ASSOCIATION: None SUBHITTED: 00	ATD PRESS: 31		L: 00
SUB CODE: AT, PP	NO REF SOV 8	600	BR: 000
Card 3/3			

L 14353-65 EWG(j)/EWP(e)/EWT(m)/EPF(c)/EPR/EWP(j)/T/EWP(b) Pc-4/Pr-4/Ps-4 ACCESSION NR: AP4048209BSD/ASD(m)-3/AS(mp)-2 S/0191/64/000/011/0037/0039 WW/RM/WH

AUTHOR: Ganz, S. N.; Parkhomenko, V. D.

TITLE: A study of the deformation of filled fluoroplast materials

SOURCE: Plasticheskiye massy\*, no. 11, 1964, 37-39

TOPIC TAGS: fluoroplast, molybdenum disulfide, boron nitride, talc, graphite, aluminum oxide, fluoroplast filler, fluoroplast creep, plastic creep/Fluoroplast-4

ABSTRACT: The creep of filled fluoroplasts (samples 20 mm in length and 10 mm in diameter) was determined by an accelerated method on a special apparatus, which is described and illustrated. In addition to powdered fluoroplast-4 type B, the following materials were used as fillers molybdenum disulfide, boron nitride, ground coke, tale, colloidal graphite and anhydrous aluminum oxide. The filler content of the fluoroplast ranged from 10 to 45%. A study of the relative deformation with time under an instantaneous tensile stress of 75 kg/cm² at 18-20C showed that, depending on its nature, the filler decreases the creep of fluoroplast-4 considerably, but that the character of the relative deformation vs. time curves remains analogous for all compositions. After 20-25 hrs., the deformation of the samples varied only slightly. A plot of the relative deformation at

Cord 1/2

L 14353-65

ACCESSION NR: AP4048209

100 hrs. and 75 kg/cm<sup>2</sup> against the amount and type of filler shows that the minimum creep is found at a 25-40% filler content. A further increase in the filler content decreases the mechanical strength of the material and leads to its failure. The deformation data are tabulated in detail for graphits filled fluoroplast. With increasing temperature, the deformation of the samples increases. The sample containing 20% colloidal graphite shows a sharp increase in relative deformation up to 25°C and higher, with increasing time. Since this combination shows the minimum deformation at all temperatures, it is suitable for a study of the quantitative relationships between deformation, compression, filler content and time. Orig. art. has: 6 figures and 1 table.

ASSOCIATION: None

SUBMITTED: 00

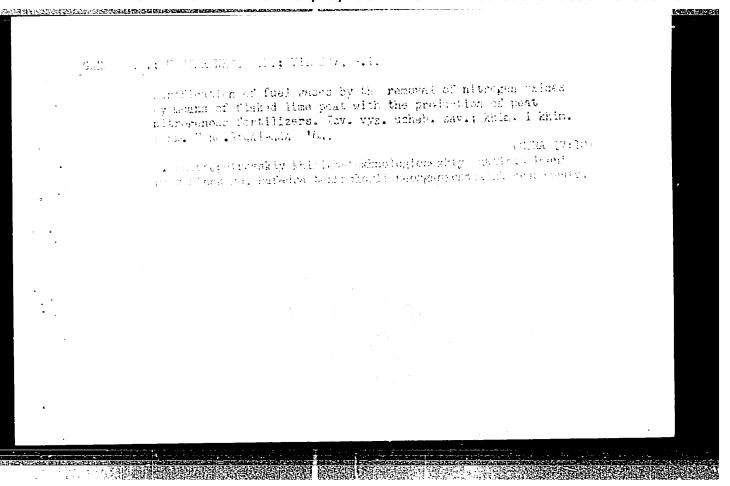
ENCL: 00

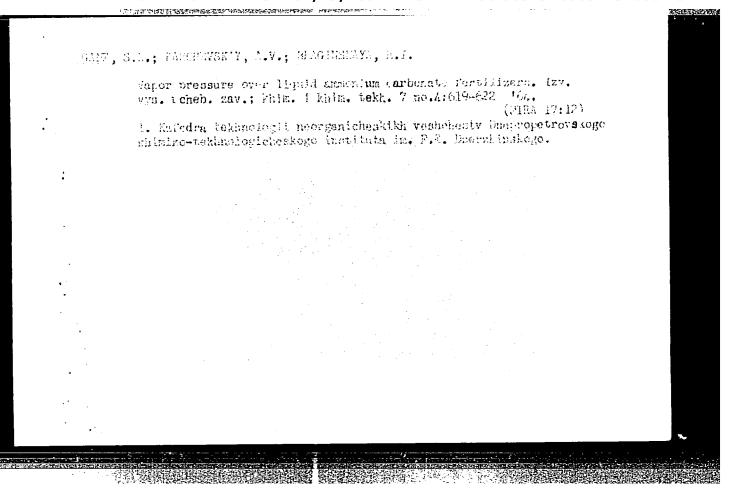
SUB CODE: MT

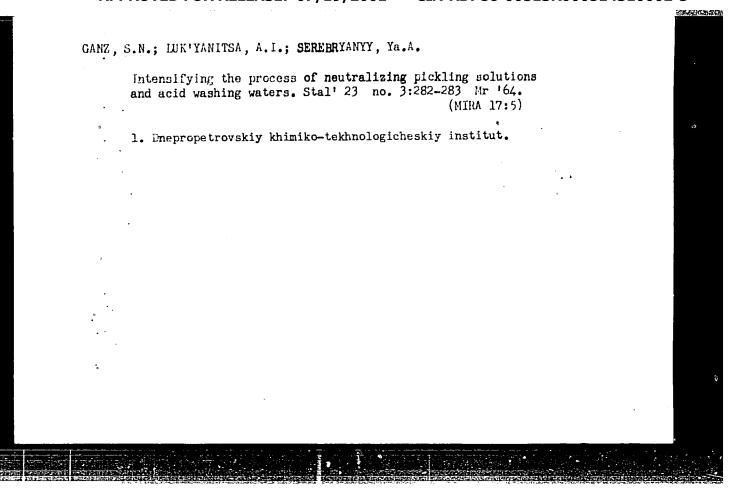
NO REF SOV: 002

OTHER: 000

Card 2/2







GAME, S.N.; MULTINIAN, A.I.; MALICHINA, L.A.

Production of nitrogeneous-ferrous fertilize w from pic ting solution waster. Zhur.orikl.khin. 37 no.7:1005-1609. In the Simultaneous production of nitrogeneous-ferrous fertilizers and purification of gases by the removal of nitrogen exides. Ibid.:1609-1611 (MIRA IS:4)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut.

GANZ, S.N.; PARKHCMENKO, V.D.

Antifriction properties of fluoroplast-4 filled with ground coke.
Plast. massy no.1:40-41 '65. (MIRA 18:4)

DWT(m)/EPF(o)/EPR/EWP(j)/T Pc-4/Pr-4/Ps-4 WW/RM L 40997-65 S/0191/65/000/003/0036/0038 ACCESSION NR: AP5006560 AUTHOR: Ganz, S. N.; Parkhomenko, V. D. TITLE: Shrinkage of filled 4-polyfluoroethylene resin (Teflon) SOURCE: Plasticheskiye massy, no. 3, 1965, 36-38 TOPIC TAGS: filled resin, polyfluoroethylene resin, filled fluoroplast, resin shrinkage, graphitized resin / Teflon polymer ABSTRACT: The article gives tabulated shrinkage values for graphitized Teflon (fluoroplast-4) compressed at 300-320 kg/cm2 for 2-3 min at a gotion rate of 6-7 cm/min. The material was caked at 360-380C, raising the temperature by 75C an hour, for 2 to 6 hrs depending on the size of the object, and cooled for 1.5-2 hrs. down to 150C in the oven and then in air to obtain "nonhardened" products. Tabu-lated data show that shrinkage across both outer and inner diameters is greater in larger tubular pieces and is less in pieces provided with metalic fixtures or cooled in molds. A diagram of shrinkage vs object diameter is plotted (see Fig. 1 of the Enclosure) which indicates that shrinkage is low (0.8-1.2%) and increases slowly in pieces with diameters up to 40 mm, but climbs sharply in pieces 45-80 mm

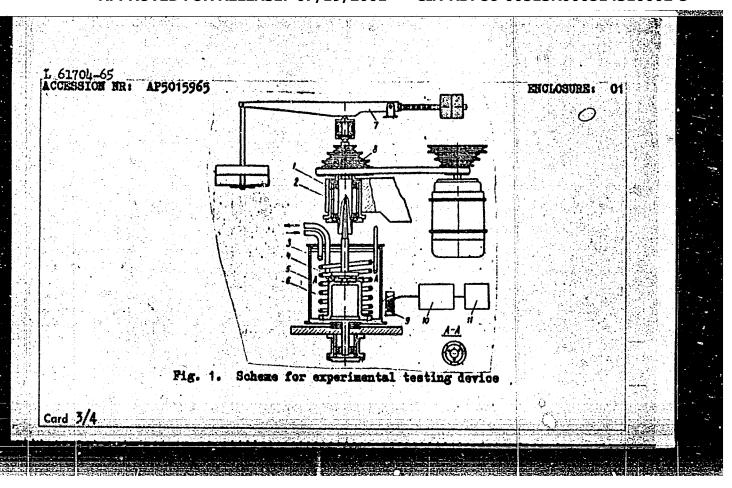
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L 40997-65				
ACCESSION NR: AP50	06560	Control of the second of the control		
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in diameter, and in	creases almost lin	early in pieces 80-	300 mm in diameter. T	ha
empirical expression	$n G = 20.595 - \frac{29}{2}$	945 where G is the	shrinkage in % and D	10
	ī	g D	•	
a coefficient numer	ically equal to th	e object diameter in	mm, was used for the	
calculations. Orig	. art. has: 3 tab	les, 1 figure and 2	formulas.	
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ASSOCIATION: None				
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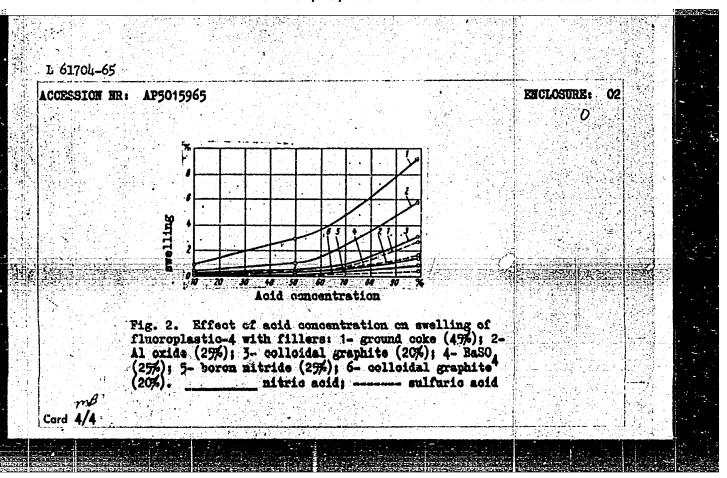
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. 54845-55 ACCESSION NR:	E/T(m)/EPF(c)/EPR/EVIP(j)/T _ AP5016883	678:539.376	00/003/0057/0062	
AUTHOR: Ganz,	S. N. (Dnepropetrovsk); Park	chomenko, V. D. (Dneprop	etrovsk) 30	
TITLE: Equati	ons for determining the defor	rmation of filled f <u>luoro</u>	carbon plastic	•
SOURCE: Mekh	anika polimerov, no. 3, 1965,	57-62		
filled Teflon	ftoroplast 4, polytetrafluoro, Teflon deformation	· · · · · · · · · · · · · · · · · · ·		
ABSTRACT: An massy, no. 11 formability 0	earlier study (Ganz, S. N., 1964) showed that the addit f fluorocarbon materials, in	particular, that of fton	roplast~4 (poly- arhite (I). In	
tetrafluoroet the present s	tudy, deformation of I was in from data which make it possi	nvestigated experimental	ly. Equations formation of	
filled fluore and testing t art. has: 6	ime. The equations hold true	e for stresses below 200	kg/cm <sup>2</sup> . Orig. [BO]	
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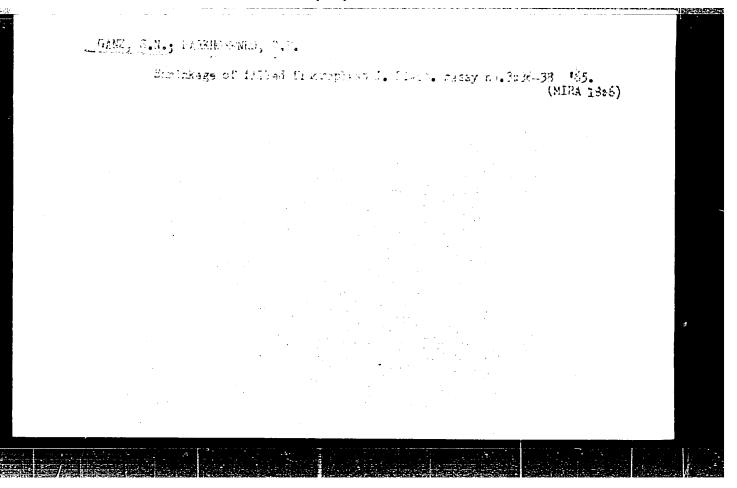
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ACCESSION NR: AP5016883			
ASSOCIATION: none			
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	그는 발표 함께서 뭐 먹는다.		
	[경독교육 호류학 불편 - 1]		
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	이 사용이 유계를 받았습니다. 지원 기계를 보고하는 경우를 하는 것이 있습니다.		
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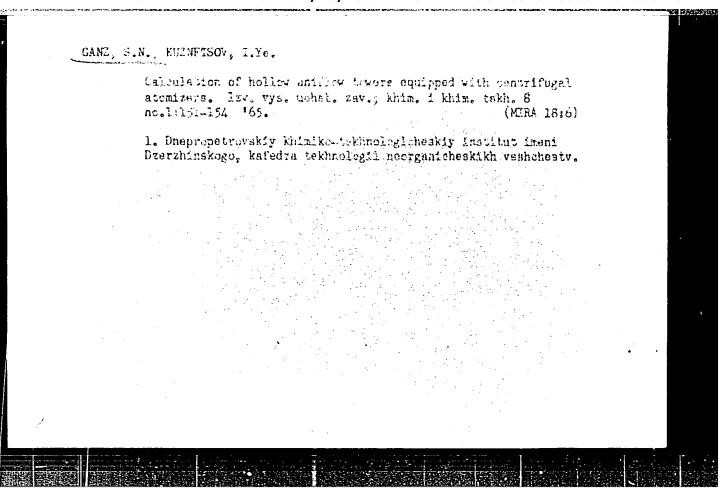
61704-65 EWG(j)/EFF(c)/EPR/EWP(j)/EWP(z)/EWT (A(d)/EWP(t) Pc-4/Pr-4/Ps-4 RM/WH/WW/EJW/JD	(m)/EWP(1)/T/EWP(b)/EWP(e)/EWP(w)/	
A(d)/EMP(t) Pc-4/Pr-4/Ps-4 PM/WH/WW/HJW/JD ACCESSION HR: AP5015965	OR/0314/65/000/006/0030/0033 678.743:620.178.162	
AUTHORS: Ganz. S. N. (Doctor of technical scie	mces); Parkhomenko, T. D. (Candidate	_
of technical sciences)		
TITLE: Friction and abrasion testing of filled	fluoroplastic-4 in agressive media	
SOURCE: Khimicheskoye i neftyenoye mashinostro	yeniye, no. 6, 1965, 30-33	
TOPIC TAGS: plastic, fluoropolymer, plastic co	pating, friction, ductile material/ C1	
colloidal graphite, ikhishyr steel, b iluorophi	15 15	
ABSTRACT: Friction coefficients and wear of to molybdenum-disulfide, boron nitrice, pure BaSO	. A Promise Coast	
contents varied from 10 to 45%. Technology of S. N. Gans and V. D. Parkhomenko (Plasticheski	WINGUINEU DISPATATION AND GODOLING -A	0
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	BULLDING TIME THE CAPITY OF TH	
Enclosure. The leading part of the device con spindle (2) with the rotating steel specimen (	DIDTOR OF A PERMITS I'V VALUE OF THE PROPERTY	
spindle (2) with the rotating steel specimen (		-
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	rando de la companya	

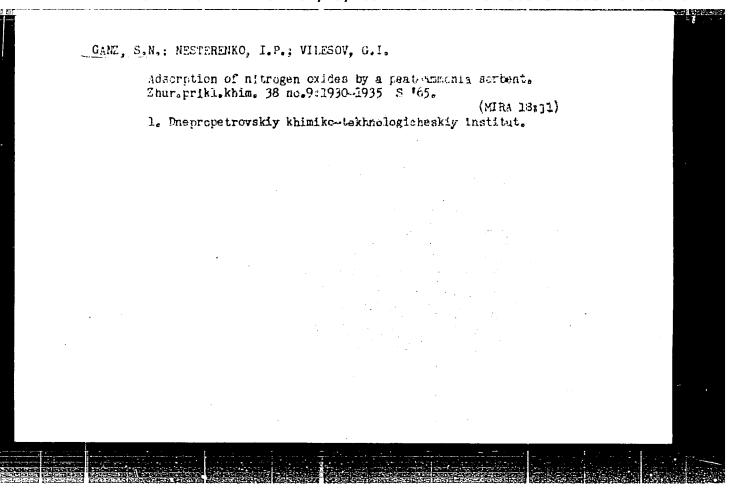
L 61704-65 ACCESSION NR: AP5015965 specimens through the lever system (7); velocity of the steel specimen rotation was varied by the multistep pulleys (8). The plastic specimen (4) was placed in the bath (5) filled with soid and standing on the thrust- and radial ball-bearings. Acid temperature was regulated by the heat exchanger (6) and was controlled by a thermometer. The measuring part consisted of an elastic plate with sensing elements of strain gauge (9), an amplifier (10) and an oscillograph (11). All measured results were tabulated. Maximum wear was shown by the fluoroplastic-t without a filler; maximum resistance to sulfuric acid by the coke- and talcum-filled specimens; to mitrio acid by those with molybdenum disulfide. Filled plastics gained weight by swelling during friction in soils as shown in Fig. 2 on the Enclosure. Orig. art. has: 5 tables and 2 figures. ASSOCIATION: none SUB CODE: ENCL: SUBMITTED: OTHER: NO REF SOV: 002 **Card 2/4** 











GANC, SeN., doktor tekhn.nauk; FARKHOMENKO, V.A., kand.tekhn.nauk; GLOZMAN, L.F.,

Lice.,

Investigating the antifriction filled polyfluoroethylene materials.

Vest.menhinostr. 45 no.9:41-44 S 165.

(MIRA 18:10)

GANZ, S.N.; MORCZOV, V.S.; VASHKEVICH, A.M.

Preparation of nitric acid of higher concentration in a closed circulation system. Zhur. prikl. khim. 38 no.5:961-966 My 165.

(MIRA 18:11)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut.

ACC NR. AT7004081 (N) SOURCE CODE: UR/3244/66/000/004/0097/0100

AUTHOR: Parkhomenko, V. D.; Ganz, S. N.; Golubenko, L. A.; Volodin, I. S.

ORG: Dnepropetrovsk Institute of Chemical Technology (Dnepropetrovskiy khimiko-tekhnologicheskiy institut)

TITLE: Linear expansion and thermal conductivity coefficients of fluoroplastic material

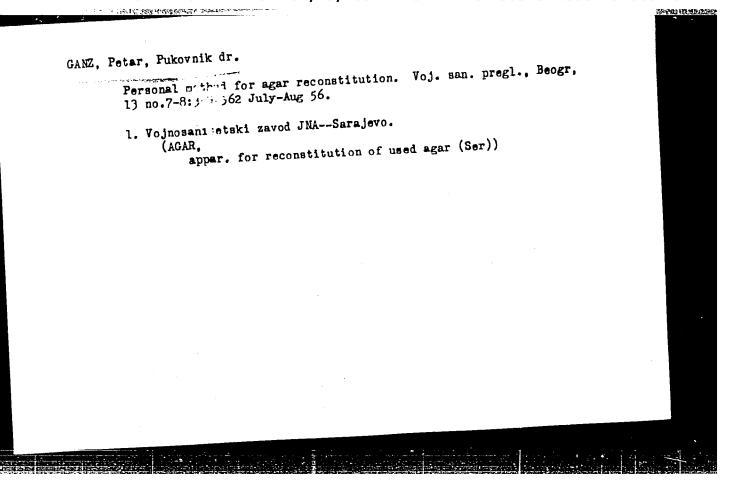
SOURCE: Dnepropetrovsk. Klimiko-tekhnologicheskiy institut. Khimicheskaya tekhnologiya, no. 4, 1966, 97-100

TOPIC TAGS: thermal conduction, thermal expansion, temperature coefficient, filler, linear expansion, fluoroplastic material

ABSTRACT: Expansion and thermal conductivity with BaSo<sub>4</sub>, MoS<sub>2</sub>, graphite, and coke used as fillers. It was shown that a very complex relationship exists between the linear expansion coefficient and the temperature, type and concentration of a filler. Generally, the increased film concentrations contribute toward lowering of the linear expansion coefficient. Thermal conductivity is determined by the filler.

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thermal conductivity		the mixture usually increases terial. Orig. art. has: 4 figu	[MA]
sub code: 11/subm da	TE: none/ORIG F	REF: 000/	
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GANZ, Petar; ARSIC, Bogoljub; MILENKOVIC, Gruja; GIRT, E.; JOAVNOVIC, S.;

BOSKOVIC, B., Vojnosanitetski zavod.

Control and evaluation of culture media. Voj. san. pregl., Beogr.
16 no.3:212-216 Mar 59.

1. Katedra farmaceutskih nauka Vojna bolnica Bakterioloska laboratorija.

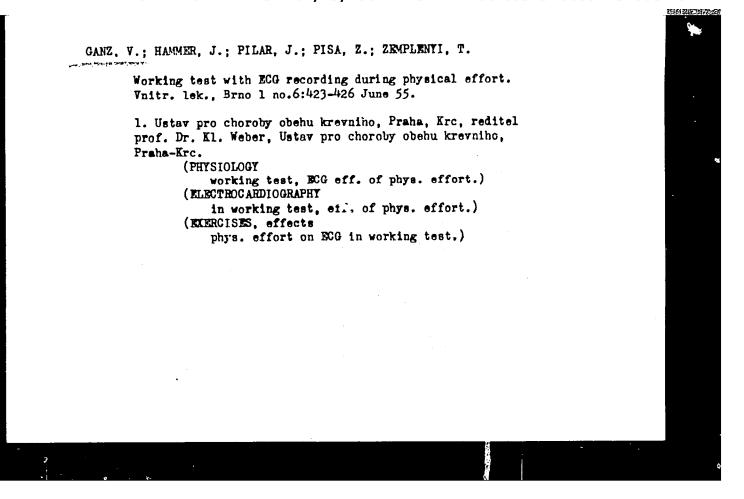
(GULTURE MEDIA control & evaluation (Ser))

FRONEK, Arnost, MUDR.; GANZ, Vilem, MUDR.; HAMMER, Jan, MUDR.;
PISA, Zbynek, MUDR.; ZEMPLENYI, Tibor, MUDR.; 2a tech. spoluprace:
STEIDLOVE, Aloisie; VELATOVE, Anny

Skin resistance in ischemic heart disease. Vnitr. lek., Brno 1
no.5:333-339 May 55.

1. Ustav pro choroby obehu krevniho v Praze-Krci, reditel prof.
MUDR. Kl. Weber.

(SKIN, physiology
resist. in ischemic heart dis.)
(HEART DISEASE
ischemic, skin resist.)



```
FRONEK, A.; GANZ, V.; HAMMER, J.; PISA, Z.; technickou spolipraci:

VELATOVE, A.; STEDLOVE, A.

Skin temperature in persons with ischemic heart disease.

Vnitr. lek., Brno 1 no.6:435-437 June 55.

1. Ustav pro choroby obehu krevniho v Praze-Krci, relitel prof. Dr. Kl. Weber.

(HEART DISEASE ischemic, skin temperature.)

(SKIN, in various diseases heart dis., ischemic, temperature measurement.)

(BODY TEMPERATURE skin in ischemic heart dis.)
```

ZEMPLENYI, T.; GANZ, Y.; PISA, Z.; technicke spoluprace: VELATOVE, A.

Relative of some U-wave changes to coronary artery diseases and hypertension. Vnitr. lek., Brno 1 no.7:518-527 July 55.

1. Ustav pro choroby obehu krevniho v Praze-Krci, reditel prof. MUDr. Kl. Weber. Ustav pro choroby obehu krevniho v Praze-Krci, Budejovicka 800.

(CORONARY DISEASES, diagnosis ECG, U wave changes.)

(MYPERTENSION, complications coronary dis., ECG, U wave changes.)

(ELECTROCARDIOGRAPHY, in various direases coronary dis. alone & with hypertension.)

PISA, Z.; GANZ, V.; technickou spolupraci A. Velatove.

The cuff test. Vnitr. lek., Brno 1 no.7:531-533 July 55.

1. Ustav pro choroby obehu krevniho v Praze-Krci, reditel prof.
MUDr. Kl. Weber. Ustav pro choroby obehu krevniho Praha-Krc,
Budejovicka 800.

(ANGINA PECTORIS, diagnosis
cuff test.)

HAMMER, Jan; OANZ, Vilem

DH-ergotoxin in therapy of angina pectoris, Cas. lek. cesk. 44
no.10:257-260 4 Mar 55.

1. Ustav pro choroby obehu krevniho; red. prof. Dr. Kl. Weber.

(ANGINA PECTORIS, therapy
dihydrogenated ergot alkaloids)
(IRCOT ALKALOING, ther. use
dihydrogenate deriv. in angina pectoris)

CZECHCSLOVAKIA/Human and Aniral Physiology - Blood. Blood Transfusion and Blood Substitutes.

T-3

Abs Jour

: Ref Zhur - Biol., No 18, 1958, 84056

Author

: Ganz, V., Fronck, A.

Inst Title

: The Plasma's Kalium Content and Hemodynamic Changes after

Rapid Blood Transfusions with Low Citrate Concentration

and High Kalium Concentration in Plasma.

Orig Pub : Casop. lekaru ceskych, 1957, 96, No 13, 381-385.

Abstract : Ib abstract.

Card 1/1

T

GANZ, V.

Country: CZEC. NSLOVNICL.

Category: Human and Animal Physiology. Blood. Blood

Transfusions and Blood Substitutes

Abs Jour: RZhBiol., No 19, 1958, 88710

Author : Ganz, V.; Frenck, A.

Inst:

Title : On the Problem of Toxicity of Citrated Blood

Orig Pub: Casop. lekaru ceskych, 1957, 96, No 35, 1105-1113

Abstract: About 30% of blood was withdrawn in dogs and was

reinjected within 30 minutes with the addition of sedium citrate (I) in the experimental animals and heparin in the controls. The rate of the infusion was 6 ml/kg in one minute. Dogs which received blood with the addition of 0.75 g of I/

Card: 1/3

T-26

Т

GANZ, V.

Country : CZECHOSLOV.MCLA

Category: Human and Amiral Physiology, Blood, Blood

Transfusions and Blood Substitutes

Abs Jour: RZhBiol., No 19, 1958, 88710

Author : Ganz, V.; Freneli, i.

Inst :

Title : On the Problem of Toxicity of Citrated Blood

Orig Pub: Casop. lekaru ceskych, 1957, 96, No 35, 1105-1113

Abstract: About 30% of blood was withdrawn in dogs and was

reinjected within 30 minutes with the addition of sodium citrate (I) in the experimental animals and heparin in the controls. The rate of the infusion was 5 ml/kg in one minute. Dogs which received blood with the addition of 0.75 g of I/

Card: 1/3

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T

Country : CZECHOSLOVAKE:

Category: Human and Animal Physiology, Blood, Blood

Transfusions and Blood Substitutes

Abs Jour: RZhDiol., No 19, 1958, 88710

The elevation of venous pressure appeared as a manifestation of heart failure caused by the cardiotoxic action of I. The veneus pressure returned to normal within 5-10 minutes following the conclusion of T. T of blood with the addition of 0.25 g of I to 100 ml of blood was free of toxic and festations. -- I.A. Froleya

Card : 3/3

T-27

GANZ, V.; FRONEK, A.

Heanurement of blood flow based on thermodilution. Ceak. fysiol. 7 no.5:

#55-456 Sept 58.

1. Ustav pro choroby obehu krevniho, Praha.

(BLOOD CIRCULATION, determination,

thermodilution technic (Cz))

FRONEK, A.; GANZ, V.

Local thermodilution method of measuring mimits volume and circulation rate in the peripheral vessels. Cesk. fysiol. 8 no.3:189 Apr 59.

1. Ustav pro choroby obehu krevniho Praha. Predneseno na III. fysiologickych dnech v Brne dne 13. 1. 1959.

(BLOOD VOLUME, minute volume, local thermodilution method of determ. (Cx))

(BLOOD CIRCULATION, rate, local thermodilution method of determ. (Cx))